PERMIT NO. HI 0021199

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq.; the "Act") and Chapter 342D, Hawaii Revised Statutes, and Chapters 11-54 and 11-55, Administrative Rules, Department of Health, State of Hawaii,

MARISCO, LTD.

(hereinafter PERMITTEE)

is authorized to discharge harbor water flowing off their drydocks during lowering and lifting cycles, noncontact cooling water, thermal heat, and storm water runoff associated with industrial activity,

from its facility located at 91-607 Malakole Road, Kapolei, Hawaii 96707,

(“hereinafter “FACILITY”),

to the receiving water named Barbers Point Harbor through the following Outfalls and coordinates:

Outfall Serial No.	Latitude	Longitude	Description
001	21°08'00"N	158°10'00"W	Harbor Water Flowing Off Drydock During Lowering/Lifting Cycles
002	21°08'00"N	158°10'00"W	
003	21°08'00"N	158°10'00"W	Storm Water Runoff
004	21°08'00"N	158°10'00"W	
005	21°08'00"N	158°10'00"W	
006	21°08'00"N	158°10'00"W	
007	21°08'00"N	158°10'00"W	Non Contact Cooling Water
008	21°08'00"N	158°10'00"W	
009	21°08'00"N	158°10'00"W	
010	21°08'00"N	158°10'00"W	
011	21°08'00"N	158°10'00"W	Cooling Coils

in accordance with the effluent limitations, monitoring requirements and other conditions set forth herein, and in the attached Department of Health "Standard NPDES Permit Conditions," dated December 31, 2002.

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 2002, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

This permit shall be effective 30 days from the date of issuance.

This permit and the authorization to discharge will expire at midnight **March 31, 2009**.

Signed this____day of_____, 2004.

_____
(For) Director of Health

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit modification and lasting through March 31, 2009, the Permittee is authorized to discharge harbor water flowing off the drydock during lowering and lifting cycles through Outfall Serial Nos. 001 and 002; storm water associated with industrial activity through Outfall Serial Nos. 003, 004, 005, and 006; and noncontact cooling water through Outfall Serial Nos. 007, 008, 009, and 010 with the following conditions:

1. Harbor Water Flowing Off Drydock

   a. Water Quality Monitoring

   The discharge of harbor water flowing off the drydock during each lowering and lifting cycle through Outfall Serial Nos. 001 and 002 shall be limited and monitored by the Permittee as specified in below:

Parameter	Discharge Limitation		Mimimum Monitoring Frequency	Sample Type	
	Daily Maximum	Unit		Compliance Stations [a/]	Ambient Station [b/]
Total Suspended Solids	40.0	mg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Settleable Solids	N/L	mg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Oil and Grease	15	mg/l	Once/Cycle [c/]	Grab [f/]	Grab [e/]
Tributyltin [g/]	0.01	µg/l	Once/Cycle [c/, h/]	Composite [d/]	Grab [e/]
Arsenic [g/]	69	µg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Cadmium [g/]	43	µg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Chromium [g/]	1,100	µg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Copper [g/]	2.9	µg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Lead [g/]	140	µg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Mercury [g/]	2.1	µg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
Zinc [g/]	95	µg/l	Once/Cycle [c/]	Composite [d/]	Grab [e/]
pH Range [i/]	7.6 - 8.6	Standard Units	Once/Cycle [c/]	Grab [j/]	Grab [e/]

Parameter	Discharge Limitation		Mimimum Monitoring Frequency	Sample Type	
	Daily Maximum	Unit		Compliance Stations **a/**	Ambient Station **b/**
Flow	N/L	Gallons	Calculate/estimate flow of harbor water on drydock surface during drydock lowering and lifting activities.		

N/L No limitation. The Permittee shall report results on the Discharge Monitoring Report form.

a/ The Permittee shall collect one (1) grab sample from a minimum of three (3) compliance stations at locations within the boundary of the drydock platform where work was performed and immediately following the initial rush of harbor water flowing onto the drydock deck during drydock lowering activities.

b/ The Permittee shall collect one (1) grab a sample from a minimum of one (1) ambient station at a location in the receiving water that is representative of the water quality of the receiving water body and immediately prior to the commencement of drydock lowering and lifting activities.

c/ "Once/Cycle" means the Permittee shall collect water samples during each drydock lowering except when no work had been done on the drydock deck after the previous drydock lifting activity.

d/ The Permittee shall combine the individual grab samples taken from each compliance station to form the composite sample.

e/ A grab sample shall mean a single sample representative of ambient receiving water conditions.

f/ The Permittee shall test the grab samples from each compliance station separately and report all values on the DMR.

g/ The Permittee shall analyze for the total recoverable portion of the parameter.

h/ The Permittee shall analyze for tributyltin (TBT) only when repair work was done on a vessel that has TBT paint coating or when TBT paint was applied to the vessel in drydock.

i/ The Permittee shall test for pH within 15 minutes of obtaining the sample.

j/ The Permittee shall test the grab samples from each compliance station separately and report the minimum and maximum values.

b. Visual Monitoring

(1) The Permittee shall take a minimum of 10 photographs of the drydock surface immediately prior to each drydock lowering, even when no work had been done on the drydock deck after the previous drydock lifting activity.

(2) The photographs shall show the conditions of the drydock surface including the corners and hard-to-reach areas.

(3) The Permittee shall mark each photograph with the date and time the photograph was taken and submit the photographs with monthly Discharge Monitoring Reports (DMRs).

2. Storm Water Runoff

a. The discharge of storm water runoff associated with industrial activity from the facility through Outfall Serial Nos. 003, 004, 005, and 006 shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation	Unit	Minimum Monitoring Frequency	Sample Type
Flow	N/L	gpm	Once/Calendar Year	Calculated or Estimated
Biochemical Oxygen Demand (5-day)	N/L	mg/L	Once/Calendar Year	Grab/Composite **a/**
Chemical Oxygen Demand	N/L	mg/L	Once/Calendar Year	Grab/Composite **a/**
Total Suspended Solids	N/L	mg/L	Once/Calendar Year	Grab/Composite **a/**
Total Phosphorus	N/L	mg/L	Once/Calendar Year	Grab/Composite **a/**
Total Nitrogen	N/L	mg/L	Once/Calendar Year	Grab/Composite **a/**
Nitrate+Nitrite Nitrogen	N/L	mg/L	Once/Calendar Year	Grab/Composite **a/**
Oil and Grease	15	mg/L	Once/Calendar Year	Grab **b/**
pH Range	7.6 - 8.6	Standard Units	Once/Calendar Year	Grab **b/**
Tributyltin **c/**	0.01	µg/L	Once/Calendar Year **d/**	Grab/Composite **a/**
Arsenic **c/**	69	µg/L	Once/Calendar Year	Grab/Composite **a/**
Cadmium **c/**	43	µg/L	Once/Calendar Year	Grab/Composite **a/**
Chromium **c/**	1,100	µg/L	Once/Calendar Year	Grab/Composite **a/**
Copper **c/**	2.9	µg/L	Once/Calendar Year	Grab/Composite **a/**
Lead **c/**	140	µg/L	Once/Calendar Year	Grab/Composite **a/**
Mercury **c/**	2.1	µg/L	Once/Calendar Year	Grab/Composite **a/**
Zinc **c/**	95	µg/L	Once/Calendar Year	Grab/Composite **a/**

a/ The Permittee shall collect samples from a discharge resulting from a representative storm. A representative storm means a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable (greater than 0.1 inch) rainfall.

The Permittee shall collect samples for analysis during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge. If the discharge lasts for over an hour, the Permittee may cease sample collection. The Permittee shall analyze the sample collected during the first 15 minutes as grab sample. If two (2) or more samples are collected from the same outfall, the Permittee shall analyze the samples as a composite sample.

"Composite sample" means a combination of at least two (2) sample aliquots, collected at periodic intervals. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the flow at the time of sampling or total flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.

b/ Grab sample means an individual sample collected within the first 15 minutes of discharge.

c/ The Permittee shall analyze for the total recoverable portion of the parameter.

d/ The Permittee shall analyze for tributyltin (TBT) only when repair work was done on a vessel that has TBT paint coating or when TBT paint was applied to the vessel in drydock anytime during the 30 days prior to the date of storm water sampling.

b. The Permittee shall report pollutant levels exceeding discharge limitations to the Director of Health (Director) in a cover letter with the next monthly DMR. The Permittee shall provide the Director with an explanation of pollutant origins and any additional measures which will be taken to ensure future discharges will comply with the limitations.

c. The Permittee shall record and report the following sampling and analysis information together with the DMRs:

(1) The date, duration (in hours), starting and ending times, and magnitude (in inches) of the storm event during which samples are collected.

(2) The duration between the storm events sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

(3) The date, storm water outfall serial number, and time of sampling.

(4) The date analyses were performed, and the laboratory who performed the analyses.

(5) The results of such analyses.

3. Noncontact Cooling Water

a. The discharge of noncontact cooling water through Outfall Serial Nos. 007, 008, 009, and 010 shall be limited and monitored by the Permittee as specified in the table below:

Parameter	Discharge Limitation	Unit	Minimum Measurement Frequency	Sample Type
Flow	Report	Gallons	Continuous	Calculated or Estimated
Temperature	30	°C	Once/Calendar Month	Grab [a/]
Total Residual Oxidants [b/]	13	µg/L	Once/Calendar Month	Grab [a/]
Total Suspended Solids [c/]	5.0 [d/]	mg/L	Once/Calendar Month	Grab [a/]
Oil and Grease	15	mg/L	Once/Calendar Month	Grab [a/]
pH Range [e/]	7.6 - 8.6	Standard Units	Once/Calendar Month	Grab [a/]

a/ A grab sample shall mean a single sample representative of the effluent during the highest load conditions during the calendar month.

b/ The Permittee shall analyze for total residual oxidants using the amperometric titration method for total residual chlorine described in 40 CFR Part 136.

c/ The Permittee shall analyze both the influent and effluent for this parameter.

d/ The total suspended solids limit is the net concentration increase of the effluent compared to the influent.

e/ The Permittee shall analyze for pH within 15 minutes from collecting the sample.

b. The Permittee shall take samples at the following locations:

(1) Influent - downstream from any additions to the source water and prior to the cooling system.

(2) Effluent - downstream from the cooling system and prior to mixing with the receiving state waters.

c. The Permittee shall record the date, starting and ending times, duration (in hours), flow rate, and volume of each discharge and submit with the monthly DMR.

4. Cooling Coils

a. The discharge of thermal heat from the cooling coils shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations			Minimum Monitoring Frequency
	Compliance Station [a/]	Ambient Station [b/]	Unit	
Temperature	Within ± 1° of the Ambient Temperature	N/L	°C	Once/Calendar Month [c/]

N/L No limitation. The Permittee shall report results on DMR forms.

a/ The Permittee shall measure temperature of the receiving water as close to the cooling coils as possible.

b/ The Permittee shall measure the ambient temperature of the receiving water at a location where no effects from the cooling coils or other drydock operations should be evident.

c/ The Permittee shall conduct temperature monitoring when the compressors are at the highest load conditions for that month.

b. The Permittee shall also include the following information with monthly DMRs:

(1) Date and time of sampling.

(2) Current conditions at the sampling location.

(3) Weather conditions, including ambient air temperature, wind direction, cloud cover, and rainfall information.

(4) Compressor load conditions.

5. Test Methods

The Permittee shall use the test methods promulgated in 40 CFR Part 136 effective on July 1, 2002, and, when applicable, the chemical methodology for sea water analyses (see Hawaii Administrative Rules (HAR), Section 11-54-10). The Permittee shall use test methods with detection limits that are equal to or lower than the permit limitations. For situations where the applicable water quality standard is below the detection limits of the available test methods, the Permittee shall use test methods which has the detection limit closest to the applicable water quality. If a test method has not been promulgated for a particular constituent, the Permittee may use any suitable alternative method for measuring the level of the parameter in the discharge

provided the Permittee submits a description of the method or a reference to a published method for approval by the Director in accordance with 40 CFR Part 136.4.

B. BEST MANAGEMENT PRACTICES REQUIREMENTS

1. Prohibited Discharges

   The Permittee shall not discharge the following into receiving waters:

   a. Hydroblasting water.

   b. Drydock deck rinse water.

   c. Solids removed from the vessel, or any debris generated by the shipyard work crew into the receiving water.

   d. Sanitary waste from docked vessels into the receiving water.

   e. Waste from the physical cleaning of the cooling system.

   f. Compounds used in closed-loop systems.

   g. Water collected in the sump area (except immediately after drydock lifting).

2. Pollution Prevention Measures

   a. The Permittee shall sweep and/or vacuum the drydock deck daily when work was performed on the drydock.

   b. The Permittee shall immediately clean up any spills, including, but not limited to, oil and hydraulic fluid.

   c. The Permittee shall contain and store collected spent sandblast grit from sand blasting operations under a cover.

   d. The Permittee shall plug all hard-to-reach areas and maintain all drydock surfaces, including the top of the wing walls, to prevent chipped paint, rust, and other debris from entering the receiving water.

   e. Prior to lowering, the Permittee shall vacuum the surface of the drydock to remove solids and other pollutants. If vacuuming is not sufficient for cleaning hard-to-reach areas, then the Permittee shall implement additional measures to

ensure that solids are removed from these areas or the Best Available Technology (BAT) to prevent solids from contacting the drydock.

f. The Permittee shall discharge cooling water from the docked vessel directly to the receiving water in a manner that prevents the cooling water discharge from contacting the drydock, docked vessel, or any other pollutant.

g. The Permittee shall properly store and dispose all wastes.

h. The Permittee shall not discharge any wastewater or other pollutant into drydock ballast tanks or any other drydock compartment.

3. Inspection

a. The Permittee shall inspect the facility, including the storm water drainage system, for potential pollutant sources on a monthly basis.

b. The Permittee shall clean the storm drains if there is any visible sediment or debris accumulated in the storm drains.

c. The Permittee shall report the inspection results, including findings and actions taken, with the monthly DMRs.

4. Record Keeping

a. The Permittee shall maintain monthly logs of all drydock lowering and lifting activities conducted during each calendar month and submit the logs with the monthly DMRs. The Permitee shall indicate on the log the date and time of the docking/undocking activity, names of the vessels docked/undocked, type of sampling performed, and if no work was performed between drydock lowering and lifting activities.

b. The Permittee shall maintain monthly logs documenting all the sand blasting activities conducted at the facility during each calendar month and submit the reports with the monthly DMRs. The logs shall include the dates of sand blasting activities and the amounts of grit used and recovered. If the amount recovered is different than the amount applied, the report shall describe the reasons for the difference.

c. The Permittee shall maintain records of all inspections including the date of inspection, findings, and any actions taken.

5. Best Management Practices (BMPs) Plan

a. The Permittee shall develop and implement a BMPs Plan to reduce pollutants discharged from the facility. At a minimum, the BMPs Pplan should include the measures outlined above. The BMPs Plan shall be submitted within 30 days from the effective date of this permit.

b. The Permittee shall review and update the BMPs Plan as needed to comply with this permit or as required by the Director. The Permittee shall report any changes to the plan to the Director within 60 days from the date the changes were made. The Permittee shall maintain documentation of all changes made to the plan. The Permittee shall retain the BMPs Plan and all accompanying records, reports, and changes for a period of at least three years after the expiration of this permit.

c. The Permittee shall train all employees to implement the BMPs Plan.

d. The Permittee shall maintain the BMPs Plan onsite or at a nearby office.

6. Drydock Deck Improvement Plan

The Permittee shall develop and implement a drydock deck improvement plan to prevent sandblast grit and other pollutants from becoming entrained in the existing drydock deck. The Permittee shall submit the plan to the Director within 60 days from the issuance date of this permit. The plan shall include the following:

a. Method to prevent sandblast grit and other pollutants from contacting the existing drydock deck (i.e. covering the drydock deck with tarps, permanently installing metal plates over the existing drydock deck, etc.).

b. Implementation schedule, including dates (month and year) when portions of the plan will be implemented.

C. REPORTING REQUIREMENTS

1. Monitoring Results

   a. The Permittee shall report and summarize all monitoring results obtained during the previous reporting period on a Discharge Monitoring Report (DMRs) Form (EPA No. 3320-1).

   b. The Permittee shall submit results of all monitoring required by this permit in a format that allows direct comparison with the limitations and requirements of this permit.

   c. The Permittee shall include lab reports and chain-of-custody forms with the DMRs.

   d. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period.

   e. The Permittee shall submit duplicate signed copies of these, and all other reports required herein, to the Regional Administrator and the Director at the following addresses:

      Regional Administrator
      Water Division (WTR-7)
      CWA Compliance Office
      U.S. Environmental Protection Agency Region 9,
      75 Hawthorne Street
      San Francisco, CA 94105

      Director of Health
      Clean Water Branch
      Environmental Management Division
      Department of Health
      919 Ala Moana Boulevard, Room 301
      Honolulu, Hawaii 96814-4920

2. Other Information

The Permittee shall submit the following information along with monthly DMR:

a. Photographs of drydock immediately prior to drydock lowering, marked with the date and time the photograph was taken, as specified in Part A.1.b of this permit.

b. Storm event and storm water discharge information as specified in Part A.2.c of this permit.

c. Noncontact cooling water discharge information as specified in Part A.3.c of this permit.

d. Drydock lowering and lifting activities log as specified in Part B.2.h of this permit.

e. Sand blasting activities log as specified in Part B.3.b of this permit.

3. Noncompliance

The Permittee shall orally report any noncompliance which may endanger health or the environment (see Standard NPDES Permit Condition Section 16.f). The Permittee shall make oral reports by telephone to the Clean Water Branch at (808) 586-4309 during regular office hours or the Hawaii State Hospital Operator at (808) 247-2191 and the State-On-Scene Coordinator from the Office of Hazard Evaluation and Emergency Response, at (808) 226-3799 outside of regular office hours.

D. OTHER REQUIREMENTS

1. Schedule of Submission

   a. The Permittee shall submit an Effluent Monitoring Program to comply with Part A of this permit to the Director for approval within 30 days from the issuance date of this permit. The Program shall include at a minimum, but not be limited to, the following:

      (1) Sampling station location map.

      (2) Sample holding times.

      (3) Preservation techniques.

      (4) Test methods and method detection limits.

      (5) Quality assurance and quality control measures.

   b. The Permittee shall submit an updated BMPs Plan to the Director for approval within 30 days from the issuance date of this permit.

   c. The Permittee shall submit a drydock deck improvement plan to comply with Part B.2.f of this permit to the Director for approval within 60 days from the issuance date of this permit.

   d. The Permittee shall submit an annual summary of the quantities of all chemicals (including the material safety data sheet), listed by both chemical and trade names, which are used in once through noncontact cooling water treatment and which are discharged to the Director by January 28 of each year.

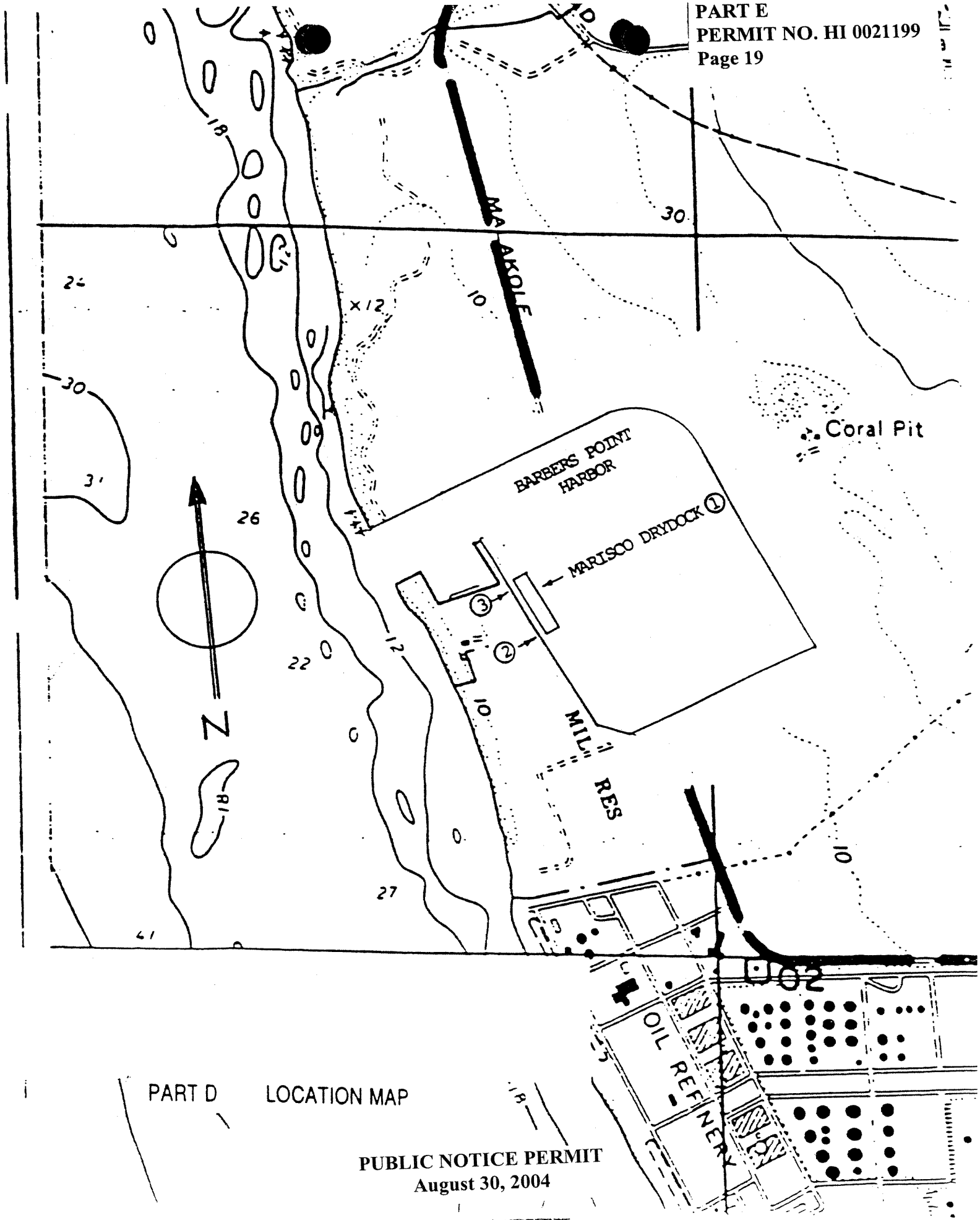
   The Director reserves the right to require the Permittee to revise the approved programs, as appropriate, pursuant toward compliance with the terms and conditions of this permit.

2. Schedule of Maintenance

   The Permittee shall submit a schedule for approval by the Director at least 14 days prior to any maintenance of facilities which the Permittee determines may result in

effluent limitations being exceeded. The Permittee shall include in the schedule a description of the maintenance and its purpose; the period of maintenance, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent occurrence of non-compliance.

E. LOCATION MAPS
(See Figures 1 & 2)



PART D LOCATION MAP

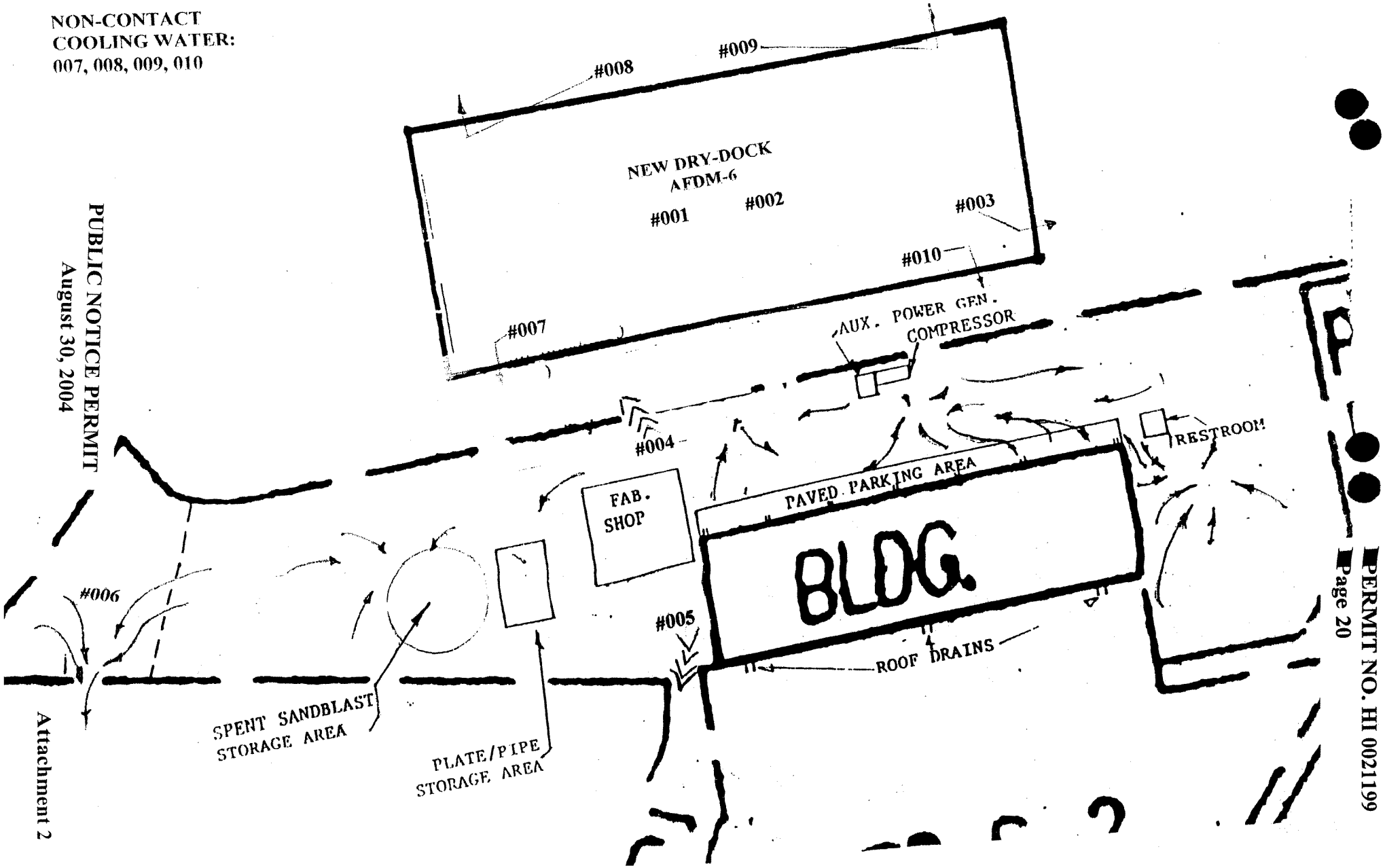
PUBLIC NOTICE PERMIT
August 30, 2004

LOWERING: 001
LIFTING: 002

STORMWATER:
003, 004, 005, 006

NON-CONTACT
COOLING WATER:
007, 008, 009, 010

LOCATION MAP FOR MARISCO, LTD
(NPDES File No. HI 0021199)



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Attachment 2